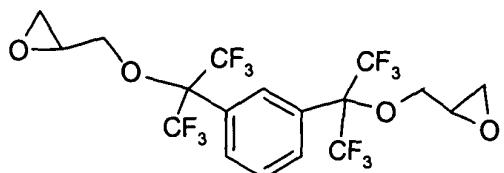


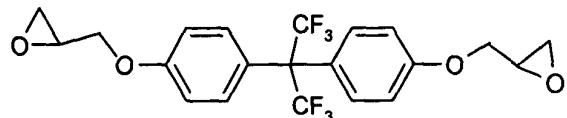
CLAIMS

What is Claimed is:

1. 1. A linear polymer comprising:
 2. at least one bisphenol monomer attached to at least one chromophore, and at least one first diepoxy monomer including at least one fluorine atom, and at least one second diepoxy monomer including no fluorine atoms; and
 5. wherein said linear polymer includes an index of refraction between the range of about 1.58 to about 1.66 measured at a wavelength of about 1300 nm.
1. 2. The polymer according to Claim 1, wherein said polymer molecular weight average is between about 10,000 and about 100,000 daltons.
1. 3. The polymer according to claim 1, wherein said bisphenol component further comprises a second chromophore comprising at least one of nitrophenyl azo, azomethine, stilbene, hydrazone, nitrophenyl hydrazone chromophores, and thienylene-vinylene.
1. 4. The polymer according to claim 1, wherein said bisphenol monomer further comprises two nitrophenyl hydrazone chromophores.
1. 5. The polymer according to claim 1, wherein said first diepoxy monomer comprising at least one of:



diepoxy Y¹

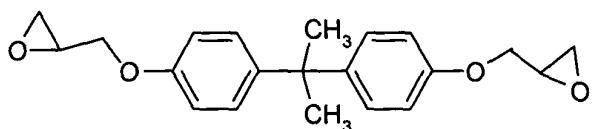


diepoxy Y²

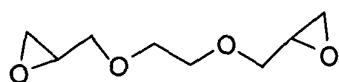
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1 6. The polymer according to claim 1, wherein said second diepoxy monomer comprising
2 at one least of:



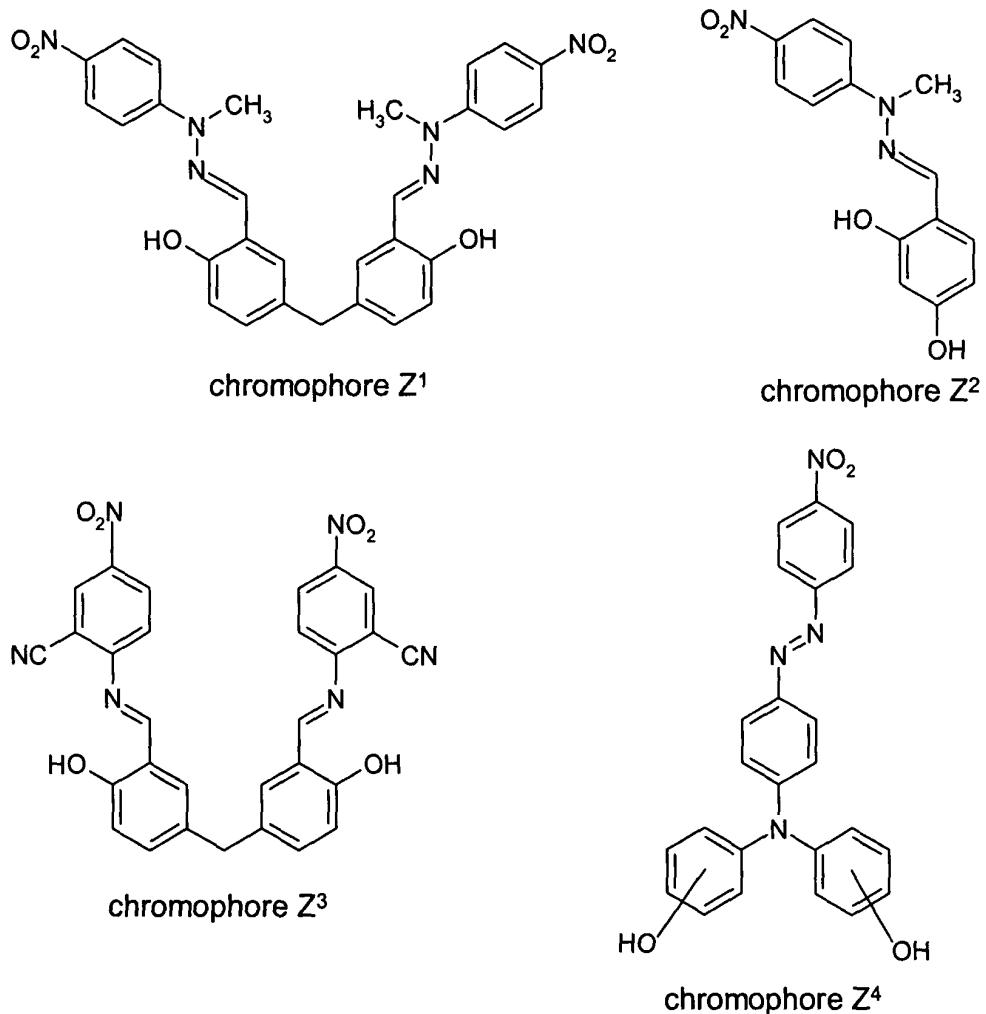
diepoxy X¹



diepoxy X²

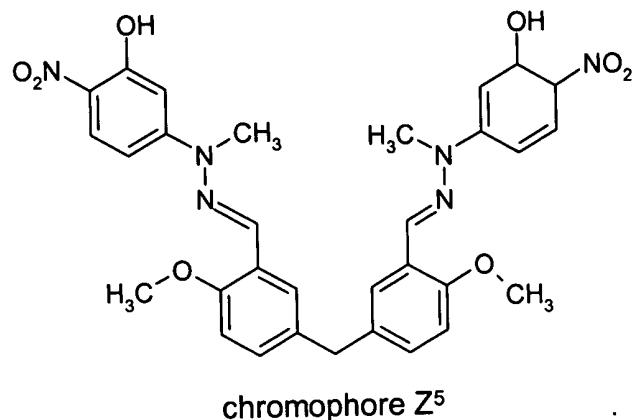
1 7. The polymer according to Claim 1, wherein said bisphenol monomer comprising at least
2 one of:

3



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Patent Application
Navy Case No. 84887



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